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FAIRMONT


STATE COLLEGE

1993-1994 Catalog Supplement

1993-94
Catalog Supplement

Fairmont State College

Fall 1993



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CATALOG SUPPLEMENT

The following revisions, additions, and deletions should be considered as an integral part of the 1992-94 College Catalog.

POLICY ON EQUAL OPPORTUNITY

Fairmont State College is an Equal Opportunity, Affirmative Action Institution. In compliance with Title VI of the Civil Rights Act of 1964, Title VII of the Civil Rights Act, West Virginia Human Rights Act, Title IX (Educational Amendments of 1972), Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the other applicable laws and regulations, the College provides equal opportunity to all prospective and current members of the student body, faculty, and staff on the basis of individual qualifications and merit without regard to race, sex, religion, age, national origin, disability, or sexual orientation, as identified and defined by law.

The College neither affiliates knowingly with nor grants recognition to an individual, group or organization having policies that discriminate on the basis of race, color, age, religion, sex, national origin, disability, or sexual orientation as defined by applicable laws and regulations. Further inquiries may be directed to the Director of Affirmative Action who is the Section 504, Title IX, and ADA Coordinator, Room 224 Hardway Hall, telephone 304-367-4247.

In compliance with the Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendments of 1989, Fairmont State College has a Drug-Free Awareness Program designed to prevent the unlawful possession, use, or distribution of illicit drugs and alcohol by students and employees. Further inquiries may be directed to the Assistant to the President or the Vice President for Student Affairs.

VISITORS

Visitors are always welcome at Fairmont State College. An informal tour of the campus may be arranged for those persons, especially for classes of high school students, who notify the College in advance of their coming. Information may be obtained at the office of Students Affairs in Hardway Hall.

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TUITION AND FEE CHANGES

The following reflects changes made in tuition and fees for 1993-1994. Consult pages 21 through 24 of the College Catalog.

	Resident On and Off Campus	Non-Resident On and Off Campus
1 hour	\$ 73.00	\$175.00
2 hours	\$147.00	\$352.00
3 hours	\$221.00	\$526.00
4 hours	\$295.00	\$699.00
5 hours	\$368.00	\$876.00
6 hours	\$442.00	\$1,051.00
7 hours	\$514.00	\$1,225.00
8 hours	\$587.00	\$1,402.00
9 hours	\$663.00	\$1,577.00
10 hours	\$736.00	\$1,750.00
11 hours	\$809.00	\$1,926.00
12 hours	\$900.00	\$2,119.00
Freshman Orientation Fee	\$20.00	
Pre-Registration Fee	\$ 4.00	
Late Registration	\$15.00	
Dormitory Room	\$700.00	
Full Board	\$820.00	
Half Board	\$410.00	
Breakage Fee	\$100.00	

FINANCIAL ASSISTANCE

Changes in Financial Aid

Eligible students may borrow up to \$3000 in the Federal Perkins program per year.

Numerous internal changes have occurred in the financial aid process. Contact the Financial Aid Office for particular details.

A free application for Federal Student Aid (FAFSA) has replaced the Financial Aid Form (FAF).

An extension to the Stafford Loan called the "Unsubsidized" Stafford Loan has been implemented. Contact the Financial Aid Office or a participating lender for details.

ADMISSION

Required Form and Credentials

Fairmont State College no longer requires ACT or SAT scores from students who have graduated from high school or completed GED requirements more than five years prior to seeking admission to Fairmont State College.

Revised Catalog Statements

Credit From A Junior or Community College

The maximum credit accepted from a Junior or Community College accredited by the North Central Association of Colleges and Schools or other regional accredited association will not exceed 72 semester hours.

Nonresident or Off-Campus Credit

Of the 128 minimum hours required for graduation from a baccalaureate degree program, no more than 28 hours may be earned by extension, home study (correspondence), radio, television, special examination, military service, and/or other forms of advanced standing credit. Credit earned in home study will be accepted only when earned in a regionally approved college. CLEP or ROTC credit are excluded from the above limitation.

Military

Individuals who are on active military service may be classified as residents for the purpose of payment of tuition and fees provided that they established a domicile in West Virginia prior to entrance into federal service, entered the federal service from West Virginia, and have at no time while in federal service claimed, or established a domicile in another state. Sworn statements attesting to these conditions may be required. The spouse and dependent children of such individuals shall also be classified as residents of the State of West Virginia for tuition and fee purposes. Persons assigned to full-time active military service and residing in West Virginia may be classified as in-state residents for tuition and fee purposes after twelve months continuous location in the state.

FRESHMAN ASSESSMENT AND PLACEMENT

As a result of the Freshman Assessment and Placement Standards adopted by the Board of Directors for the State College System, the following requirements must be satisfied before enrolling in college Mathematics and English courses.

English

Students may not enroll at any two-year or four-year institution in the State College System in an English composition course which is designed to be applied toward a baccalaureate degree, an A.A. degree, or an A.S. degree at a four-year college or university or an A.A. or A.S. degree at a community college unless the minimum score prescribed below is earned on at least one of the following tests:

- a. A score of 17 or above on the English section of the Enhanced ACT.
- b. A score of 330 or above on the verbal portion of the SAT.
- c. A score of 37 or above on the writing skills test of the ASSET.

In addition to achieving an acceptable score on one of the tests described above, students must also perform at an acceptable level on a writing sample developed by each institution in the State College System and evaluated by the institution prior to the beginning of the semester or during the first two weeks of the semester.

Students not meeting the standards described in (1) and (2) above must successfully complete a program or programs in developmental (pre-college level) English composition in order to be placed in English composition courses which count toward a baccalaureate degree, an A.A. degree, or an A.S. degree.

Any institution in the State College System may elect to set higher placement scores than the minimum scores described above.

Mathematics

Students may not enroll at any two-year or four-year institution in the State College System in a mathematics course which is designed to be applied toward a baccalaureate degree, an associate of arts (A.A.) degree, or an associate of science (A.S.) degree at a four-year college or university or an A.A. or A.S. degree at a community college unless the minimum score prescribed below is earned on at least one of the following tests:

- a. A score of 19 or above on the mathematics section of the American College Testing Program's Enhanced ACT Assessment Test (Enhanced ACT).
- b. A score of 390 or above on the quantitative portion of the College Board's Scholastic Aptitude Test (SAT).

- c. A score of 39 or above on the numerical test and 32 or above on the elementary algebra test of the American College Testing Program's Assessment of Skills for Successful Entry and Transfer (ASSET).

Students not meeting this standard must successfully complete a program or programs in developmental (pre-college level) mathematics in order to be placed in mathematics courses which count toward a baccalaureate degree, an A.A. degree, or an A.S. degree.

Any institution in the State College System may elect to set higher placement scores than the minimum scores described above.

Reading

Beginning with the fall 1993 semester, students scoring 17 or above on the reading section of the Enhanced ACT, 340 or above on the verbal section of the SAT, 36 or above on the reading skills test of ASSET, or 30 percentile or above on the Nelson-Denny Reading Test will be considered to have met minimal reading skill requirements.

Institutions in the State College System are encouraged to provide assistance for students who do not meet the standard and who are enrolled in a program leading to an associate or bachelor's degree.

Any institution in the State College System may elect to set higher placement scores than the minimum scores described above.

DIVISION OF COMMERCE

Business

Computer Science - A.S. has been terminated

Word Processing - A.A.S. has been changed to **Information Processing - A.A.S.**

Business Administration - A.A.S.

Delete from Required Hours

Speech 100 - Speech Communication

Business 141 - Business Mathematics

PE 101 - Basic Physiological Conditioning-Health

Add

Speech 102 - Speech Communication Theory

Speech 202 - Speech Communication Practice

Secretarial - A.S.

Delete

OAD 206 - Shorthand III

Add

Three hour elective

Economics

Revised Course Description

200. Economics

three hours

Economics 200 is intended as a General Education course for non-business majors. It will provide the student with a broad background in the field. The student will be exposed to micro and macro economic theory and international economics and should develop adequate knowledge to understand the role of economic systems and the application of economic principles in Modern society. Not open to students with credit from Economics 201.

New Course

308. International Economics

three hours

This course examines topics relevant to international trade such as the reasons for trade among nations, balance of payments, free trade among nations, balance of payments, free trade and barriers to trade. Students consider aspects of international financial relations, including currency exchange rate systems and institutions devoted to international monetary problems. PR: Econ. 201, 202.

Business 308 - International Economics is an elective for students seeking the B.S. in Business Administration in the following concentrations: Group A, General; Group C, Economics - to be included in the list of courses from which a minimum of 9 hours must be selected; also included in the minor in Economics; Group G, Management - to be included in the list of courses from which a minimum of 6 hours must be selected; Group H, Marketing - to be included in the list of courses from which a minimum of 9 hours must be selected.

**DIVISION OF EDUCATION/HEALTH, PHYSICAL EDUCATION,
RECREATION, AND SAFETY**

(Early/Middle, Middle/Adolescent, and Special Education)

**GENERAL STUDIES
B.A. ELEMENTARY EDUCATION, K-8**

Humanities..... 19 hours

Communication Skills

English 104, Written English I.....	3
English 108, Written English II	3
Speech 102, Speech Communication Theory	2
Speech 221, Classroom Communication	3

Literature

Choose 1 course sequence:

English 220, 221, Literature of Western World I, II	6
English 230, 231 Introduction to Literature I, II	6

Fine Arts

Choose 1 course:

Art 255, Art Appreciation	2
Music 205, Music Appreciation.....	2
Music 207, Beginning Recorder	2
Theatre 100, Theatre Appreciation	2

Social Science12 Hours

Choose 4 courses:

Geography 210, Introduction to Geography	3
History 107, U.S. History I.....	3
History 108, U.S. History II	3
History 111 History of Civilization I or.....	3
112, History of Civilization II or	3
113, History of Civilization III	3

Natural Sciences 8 Hours

Biology 101, Introduction to Biology	4
Biology 102, Introduction to Biology or	4
103, Intro. to Environmental Biology	4

Math 3 Hours

Math 110, Math for Elementary Teachers III	3
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Physical Education	2 Hours
P.E. 326, Early Psychomotor Development.....	2

Electives	6 Hours
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Option I - Foreign Language Sequence

Choose 1 course sequence:

French 101, 102 or	6
Spanish 101, 102.....	6
Other Languages as Available	6

Option II

CS 100, Introduction to EDP or	3
OAD 104, Intro. to Microcomputers.....	3

Technology 100, Technology and Society or	3
Technology 101, Introduction to Technology	3

Political Science 101, Intro. to Global Affairs	3
Sociology 111, Introduction to Anthropology	3
Philosophy 200, Introduction to Philosophy.....	3

TOTAL50 Hours

GENERAL STUDIES

B.A. SECONDARY AND K-12 EDUCATION

Humanities.....	19 hours
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Communication Skills

English 104, Written English I.....	3
English 108, Written English II	3
Speech 102, Speech Communication Theory	2
Speech 221, Classroom Communication	3

Literature

Choose 1 course sequence:

English 220, 221, Literature of Western World I, II.....	6
English 230, 231 Introduction to Literature I, II	6

Fine Arts

Art 255, Art Appreciation	2
Music 205, Music Appreciation.....	2
Music 207, Beginning Recorder	2
Theatre 100, Theatre Appreciation	2

Social Science (Choose 4 courses)	12 Hours
--	-----------------

Choose 4 courses:

Geography 210, Introduction to Geography	3
Economics 200, Economics	3
(Alt. Economics 201, Economic Principles	
History 107, U.S. History I	3
History 108, U.S. History II	3
History 111, History of Civilization I	3
History 112, History of Civilization II	3
History 113, History of Civilization III	3
Political Science 103, American Government	3
Psychology 101, Introduction to Psychology	3
Sociology 110, Introduction to Sociology	3
Natural Sciences (Choose sequence)	8-10 Hours
Biology 101 and 102, Introduction to Biology or	8
103, Intro. to Environmental Biology	
Chemistry 101, 102, General Chemistry	8
Chemistry 105, 106, General Principles	10
Physics 101, 102, Introduction to Physics	8
Geology 101, 102, General Geology	8
Or 4 Of the Following:	
Physical Science 101, Astronomy	2
Physical Science 102, Chemistry	2
Physical Science 103, Geology	2
Physical Science 104, Physics	2
Physical Science 105, History of Physical Science	2
Math	3 Hours
Math 107, Fundamentals Concepts of Math	3
Physical Education	2 Hours
P.E. 100, Fitness and Wellness	2
Electives	6 Hours
Option I - Foreign Language Sequence	
Choose 1 course sequence:	
French 101, 102	6
Spanish 101, 102	6
Other Languages as Available	6
OR	
Option II	
CS 100, Introduction to EDP or	3
OAD 104, Intro. to Microcomputer	3
Technology 100, Technology and Society or	3

Technology 101, Introduction to Technology	3
Political Science 101, Intro. to Global Affairs	3
Sociology 111, Introduction to Anthropology	3
Philosophy 200, Introduction to Philosophy	3
TOTAL	50 hours

Physical Education

New General Studies Course

100. Fitness and Wellness

two hours

This course is designed to provide an opportunity for students to make intelligent choices concerning lifelong wellness and to achieve optimum levels of fitness through regular exercise, proper nutrition, weight control and stress management.

DIVISION OF FINE ARTS

Art

Revised Program

Art 341 is a required course for the B.A. in Education Art Specializations. The number of required credit hours increased from 58 to 61 in the K-12 specialization, from 38 to 41 in the 5-12 specialization, and from 33 to 36 in the 5-8 specialization.

Addition to Program

Art 341 - Printmaking

Course Title Change

Art 341 - Graphics to
Art 341 - Printmaking

New Course

111. Art Fundamentals three hours

An introductory course to the elements/principles of design and the creative design process while exploring various media and techniques in two and three dimensional art forms. ARCHITECTURE MAJORS ONLY!

Speech Communication

New General Studies Courses

102. Speech Communication Theory two hours

This introductory lecture course to the theory of speech communication focuses upon specific speech communication contexts: intrapersonal, interpersonal, small group, public, organizational, and mass communication, emphasizing historical and ethical perspectives. Thinking, listening, language, nonverbal communication will receive special study in relation to the contexts. Theory learned is put to practice in SC 202.

202. Speech Communication Practice three hours

A course which involves practical application of the theory and knowledge acquired by the student in the Speech Communication Theory course. The student will participate in a variety of exercises and tasks in all communication contexts. It is recommended that this course be taken the semester following Speech Communication 102. PR: Speech Communication 102.

DIVISION OF LANGUAGE AND LITERATURE

English

The Division of Language and Literature completed a major curriculum revision of all English degree programs. The following is the revised Curriculum.

Major in English-Bachelor of Arts 42 sem. hrs.

General Studies Requirements	12
English 104, Written English I	3
108, Written English II	3
220, Literature of the Western World I	*3
221, Literature of the Western World II	*3

*These courses are recommended by the division but students do have the option of taking the following genre sequence:

English 230, Introduction to Literature I - Prose Narratives	
231, Introduction to Literature II - Poetry and Drama	

Upper Division Courses 42

Core Requirements:

English 303, Survey of American Literature I	3
304, Survey of American Literature II	3
313, Survey of British Literature I	3
314, Survey of British Literature II	3
374, Shakespeare	3
320, Literary Criticism	3
Subtotal	18

Restricted Electives: Select one from each one of the following groups:

Group A

(Select one)	3
English 330, Semantics	
331, Study of the English Language	

Group B

(Select one)	3
English 332, Narrative/Descriptive Writing	
333, Writing Non-fiction	
344, Writing Poetry	
345, Writing Fiction	

Group C

(Select one)	3
English 361, Major American Writers 1820-70	
362, Major American Writers 1870-1920	
363, American Novel	

Group D

(Select one)	3
English 373, Chaucer	
375, Seventeenth Century Literature	
377, Eighteenth Century Literature	

Group E

(Select one)	3
English 378, Romantic Literature	
379, Victorian Literature	
380, Twentieth Century Literature	
381, British Novel	

Group F

(Select one)	3
English 390, Modern Drama	
391, Short Story	
392, Contemporary Poetry	
Subtotal	18

Additional Electives:

(Select two)

Writing Option - Select two more writing courses from Group B.

OR

Literature Option - Select two courses from the following list or one course from this list and one course from Groups C to F.

English 382, World Novel	
386, Bible as Literature	
387, Folk Literature	
389, Minority Literature	
393, Southern Literature	
394, Art of the Motion Picture	
399, Special Topics	
Subtotal	6

Minor in English

21 hours

General Studies Requirements	12
English 104, Written English I	3
108, Written English II	3

220, Literature of the Western World I *3

221, Literature of the Western World II *3

*These courses are recommended by the division but students do have the option of taking the following genre sequence:

English 230, Introduction to Literature I - Prose Narratives

231, Introduction to Literature II - Poetry and Drama

Upper Division Courses 21

Core Requirements:

English 374, Shakespeare	3
American Literature Survey (Eng. 303 or 304)	3
British Literature Survey (Eng. 313 or 314)	3
Subtotal	9

Electives:

Group A

(Select one) 3

English 330, Semantics

331, Study of the English Language

One Writing Course (Eng. 332, or 333, or 344, or 345)

Group B

(Select one) 3

English 361, Major American Writers, 1820-70

362, Major American Writers, 1870-20

363, American Novel

Additional American Survey (Eng. 303 or 304)

Group C

(Select one) 3

English 373, Chaucer

375, Seventeenth Century Literature

377, Eighteenth Century Literature

378, Romantic Literature

379, Victorian Literature

380, Twentieth Century Literature

381, British Novel

382, World Novel

Additional English Survey (Eng. 313 or 314)

Group D

(Select one) 3

English 320, Literary Criticism

382, World Novel

- 386, Bible as Literature
- 387, Folk Literature
- 388, Women's Literature
- 389, Minority Literature
- 390, Modern Drama
- 391, Short Story
- 392, Contemporary Poetry
- 393, Southern Literature
- 394, Art of the Motion Picture
- 399, Special Topics

Additional Writing Courses (English 332, or 333, or 344, or 345)

Subtotal 12

B.A. in Education**English/Language Arts 5-12****48 sem. hrs.****General Studies Requirements 12**

English 104, Written English I	3
108, Written English II	3
220, Literature of the Western World I	*3
221, Literature of the Western World II	*3

*These courses are recommended by the division for students entering the program as freshmen or sophomores.

Upper Division Courses 48**Core Requirements:**

English 303, Survey of American Literature I	3
304, Survey of American Literature II	3
313, Survey of British Literature I	3
314, Survey of British Literature II	3
331, Study of the English Language	3
332, Narrative and Descriptive Writing*	3
355, Young Adult Literature	3
374, Shakespeare	3
431, Methods of Teaching English	3
EDU 300, The Reading Process	3
JOURN 312, The Publication Process	3

*Also satisfies General Studies Elective Option for additional writing course.

Subtotal 33

Select one from each one of the following groups:

Group A

(Select one)	3
English 373, Chaucer	
375, Seventeenth Century Literature	
377, Eighteenth Century Literature	

Group B

(Select one)	3
English 361, Major American Writers 1820-70	
362, Major American Writers 1870-1920	
378, Romantic Literature	
379, Victorian Literature	
380, Twentieth Century British Literature	

Group C

(Select one)	3
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- 363, American Novel
- 381, British Novel
- 382, World Novel

Group D

(Select one)		3
English	390, Modern Drama	
	391, Short Story	
	392, Contemporary Poetry	

Group E

(Select one)		3
English	386, Bible As Literature	
	387, Folk Literature	
	388, Women's Literature	
	389, Minority Literature	
	393, Southern Literature	
	394, Art of the Motion Picture	
	399, Special Topics	

Subtotal 15

**B.A. in Education
English/Language Arts 5-8
and Multi-Subjects Specialization**

36 sem. hrs.

General Studies Requirements	12
English 104, Written English I	3
108, Written English II	3
220, Literature of the Western World I	*3
221, Literature of the Western World II	*3

*These courses are recommended by the division for students entering the program as freshmen or sophomores.

Upper Division Courses	36
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Core Requirements:

English 330, Semantics	3
331, Study of the English Language	3
332, Narrative and Descriptive Writing*	3
355, Young Adult Literature	3
374, Shakespeare	3
431, Methods of Teaching English	3
EDU 300, The Reading Process	3
JOURN 312, The Publication Process	3

*Also satisfies General Studies Elective Option for additional writing course.

Subtotal	24
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Select one from each one of the following groups:

Group A

(Select one)	3
English 303, Survey of American Literature I	
304, Survey of American Literature II	

Group B

(Select one)	3
English 313, Survey of British Literature I	
314, Survey of British Literature II	

Group C

Select two additional upper division courses not previously cited in the core and elective requirements	6
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Subtotal	12
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New and Revised Courses**104. Written English I****three hours**

A summary, emphasizing practical skill, of the principles that underlie expository writing, audience analysis, thesis formulation, organization, diction, sentence structure, and paragraph development. An introduction to reading for content in texts selected from across the disciplines. Instruction in word processing, with process-oriented practice in the drafting, revision, and editing of texts. PR: A score of 17 on the ACT English test or successful completion of an appropriate Basic Skills writing course. NOTE: English 104 is a prerequisite for enrollment in all other English courses. A "C" in English 104 and 108 is a graduation requirement for baccalaureate degrees.

108. Written English II**three hours**

A continuation of Written English I that provides experience in analyzing and writing argument and persuasive prose. A central feature of the course is a library research project that is intended to develop familiarity with reference sources and skill in summarizing the diverse points of view of multiple sources. PR: A "C" in English 104. NOTE: A "C" in English 104 and 108 is a graduation requirement for baccalaureate degrees.

109. Technical Report Writing**three hours**

This is a course designed to provide practice in the writing of expository articles and reports of a technical nature. Considerable emphasis is placed on collecting scientific facts and organizing them in a prescribed technical form. Business letters, memoranda, and other types of written communication common to the industrial and business worlds are also stressed. PR: Eng. 104. Eng. 109 may be substituted for Eng. 108 in certain associate degree programs only. This course will also fulfill the General Studies Electives writing option.

220. Literature of the Western World I:**Homer through Milton****three hours**

A study of European literary masterpieces, including the Old Testament; the Greek, Roman and Christian epics; Greek and Shakespearean drama; and lyric poetry of many ages and cultures. PR: English 104. NOTE: It is advisable that students take English 220 before 221.

221. Literature of the Western World II:**Swift through Marquez****three hours**

A study of Western literary masterpieces, including the 18th century satirists (Swift, Voltaire); the 19th century Romantics (Goethe, Wordsworth, Melville) and Realists (Isben, Dickens, Chekhov); and the 20th century Modernists (Frost, Camus, Woolf) and Surrealists (Kafka, Borges, Beckett, Marquez). PR: English 104.

230. Introduction to Literature I:**Prose Narratives****three hours**

A study of the narrative art, both in fictional forms (the short story, novel, allegory) and non-fictional forms (autobiography, personal essay), with readings from many cultures, giving substantial exposure to important works written in the last 100 years and to those written by women and minorities. PR: English 104.

231. Introduction to Literature II:**Poetry & Drama****three hours**

A study of poetry, lyric, dramatic, and narrative; and of drama with representative works from 5th century Athens, Shakespeare's London, and the modern theatre. Significant exposure will be given to poems and plays by and about women and minorities. PR: English 104.

English 104 and 108 are prerequisites for all the following courses.

303. Survey of American Literature.**Beginnings to the 1850s****three hours**

A study of American literary traditions from the poets, diarists and chroniclers of the 1600s and 1700s to the writers of imaginative and autobiographical prose and poetry of the early-mid 1800s.

304. Survey of American Literature II.**The 1850s to the present****three hours**

A study of America's literary traditions from the 1850s to the present, including the poets, "local color" writers, Naturalists and Realists of the late 1800s; the experimental poetry and fiction of the early 1900s; the major dramatists; and a large sampling of the writers from the last half of the century.

313. Survey of British Literature I: Beowulf to 1798**three hours**

A study of British literature beginning with Beowulf and continuing through the 18th century, including Chaucer, Shakespeare, Donne, Milton, Swift, and Pope.

314. Survey of British Literature II:**1798 to Present****three hours**

A study of British literature from the early Romantic period through the present day, including such writers as Blake, Wordsworth, Austen, Tennyson, Dickens, Yeats, Shaw, Woolfe, Joyce, Eliot, Beckett, and Auden.

320. Literary Criticism (was 423)**three hours**

A study of past and present critical methods and of the theoretical assumptions upon which they are based.

330. General Semantics (was 319)**three hours**

Study in that branch of linguistics concerned with the nature, structure, and meaning of words and with the role of language in human behavior.

331. Study of the English Language (was 321)**three hours**

Word history and analysis; diction; descriptive grammar and construction; fundamentals of composition. Required of all prospective teachers of English; to be taken before the I.P.P. Sophomores must have permission of instructor.

332. Narrative and Descriptive Writing**three hours**

An introduction to narrative and descriptive techniques in fictional, nonfictional, dramatic and poetic writing. Exercises in writing techniques prepare

students to write a variety of finished works. Students also read and discuss models by accomplished writers. This course also fulfills the General Studies Electives writing option.

333. Writing Non-Fiction. three hours

Study and practice of the various kinds of expository writing with special emphasis upon the skilled production of research papers. This course also fulfills the General Studies Electives writing option.

344. Writing Poetry three hours

A workshop-based, individual-centered course in which students examine the tradition for poetry and poetics and how their own interest in writing poems may work within and against that tradition. The emphasis is on writing, revising, and presenting poems first privately and then to various public audiences. Students will also read and respond to modern poems and essays on poetics. It is advisable that students first take English 332.

345. Writing Fiction three hours

A workshop-based, individual-centered course in which students examine the tradition for fiction and how their own interest in writing stories may work within and against that tradition. The emphasis is on writing, revising, and presenting stories first privately and then to various public audiences. Students will also read and respond to modern stories and essays or fiction. It is advisable that students first take English 332.

349. Advanced Technical Communication (was 309) three hours

This course places special emphasis on the preparation and implementation of the extensive, formal report in business, industrial and public service organizations. As such it will feature an introduction and orientation to source materials for advanced technical research and presentation, and it will also be concerned with the use of technical language with informed and uninformed audiences.

354. Children's Literature (was 207) three hours

A survey of literature desirable for children; development of principles of selection and standards of evaluation; wide acquaintance with current books.

355. Young Adult Literature three hours

A survey of literature appropriate for adolescents; development of principles of selection, analyses, and standards of evaluation; wide acquaintance with current books.

361. Major American Writers 1820-70 three hours

A seminar on the lives and works of 3 or 4 of the most enduring, influential writers of these decades. Among the writers who could be chosen for study are Irving, Poe, Hawthorne, Emerson, Thoreau, Melville, Whitman, and Dickinson. Students are advised to take 303 before 361.

362. Major American Writers 1870-1940 **three hours**

A seminar on the lives and works of 3 or 4 of the most enduring, influential writers of these decades. Among the writers who could be chosen for study are James, Twain, Crane, Howells, Dreiser, Cather, Wharton, Frost, Stevens, W. C. Williams, Hemingway, Fitzgerald and Faulkner. Students are advised to take 304 before 362.

363. The American Novel (was 347) **three hours**

A course designed to trace the development of the American novel from the late eighteenth century to the present. Important American novels will be analyzed in a temporal sequence.

Students are advised to take 313 before taking the following four courses:

373. Chaucer (was 421) **three hours**

A study of selected works by Chaucer which help to reveal the range and development of his thought and art. The emphasis will on *The Canterbury Tales* and *Troilus and Criseyde*.

374. Shakespeare (was 315) **three hours**

A study of representative histories, comedies, and tragedies.

375. Seventeenth Century British Literature (was 420) **three hours**

A study of important British writers of the period, including Donne and Herrick, and emphasizing Milton.

377. Eighteenth Century British Literature (was 353) **three hours**

A study of important British writers of the period, particularly Dryden, Swift, Pope, and Johnson.

Students are advised to take 314 before taking the following three courses:

378. Literature of the Romantic Period (was 311) **three hours**

A concentrated study of the works of such writers as Burns, Wordsworth, Coleridge, Byron, Shelley, and Keats.

379. Literature of The Victorian period (was 312) **three hours**

A concentrated study of the works of such writers as Tennyson, Browning, Rosetti, Arnold, Swinburne, Mill, Ruskin, and Carlyle.

380. Twentieth Century British Literature **three hours**

A study of the major texts in 20th century British literature that reflect the cultural, social and literary issues of the time. Among the writers who could be studied are poets from Yeats, and Eliot to Heaney and Larkin, playwrights from Beckett to Stoppard, and fiction writers from Joyce and Waugh to Fowles and Drabble.

- 381. The British Novel (was 346) three hours**
A historical and critical study of significant British novels of the eighteenth, nineteenth, and twentieth centuries.
- 382. The World Novel three hours**
A study of the enduring accomplishments of the novelists of Europe, Latin America and other regions. Novels to be read may include those of Cervantes in the 1600s, Voltaire and Goethe in the 1700s, Flaubert, Tolstoy, and Dostoevsky in the 1800s, and Kafka, Camus, Kundera and Marquez in the 1900s.
- 386. The Bible as Literature (was 348) three hours**
A study of the literary types and content of the Bible.
- 387. Folk Literature (was 371) three hours**
A survey course whose chief emphasis is on the study of the oral literature of West Virginia; kindred material is also studied and collected - superstitions, riddles, stories, songs, and localized language.
- 388. Women's Literature three hours**
A study of classic texts in women's literature, including such works as A Room of One's Own, "Tell Me A Riddle," Jane Eyre, Orlando, The Awakening and Adrienne Rich's work. Students will also study the works of such contemporary women writers as Caryl Churchill, Marilynne Robinson, Margaret Atwood, Gloria Naylor, Toni Morrison, Rachel Ingalls, and Maxine Hong Kingston.
- 389. Minority Literature (was 351) three hours**
Reflecting the diversity of cultural sources and forms in America, the ideas and methods of writers outside the main literary and social traditions are studied for their contribution to the American experience. Minority writings include works by Black, Latin, Native American and Asian spokespersons, as well as the products of European ethnic groups, such as Jewish and Irish writers.
- 390. Modern Drama (was 318) three hours**
The study of modern dramas from the nineteenth century to the present.
- 391. The Short Story (was 322) three hours**
A critical study of this art form based upon the work of British, continental, and American authors.
- 392. Contemporary Poetry three hours**
This course will focus on Anglo-American poetry since WW II but will examine also the influence on contemporary poetry of Modernism and other cultures (notably, European and Latin American poetries) as well as the effects of free verse, imagism, surrealism, the New Criticism, and social/political movements on current developments in poetry and poetics.

393. Southern Literature (was 352) three hours

A study of representative Southern authors and works from colonial times to the present, emphasizing characteristically Southern themes and points of view. Included are such figures as Twain, Wolfe, Faulkner, Welty, Ransom, and O'Connor.

394. The Art of the Motion Picture (was 372) three hours

A course designed to trace the evolution of the motion picture from its most humble beginnings to its present sophisticated condition. Such aspects of the film as genre (the western, the horror film), techniques (sound, editing, photography), themes (forbidden knowledge, vengeance), and character types (cops, comics, crooks) will be considered. Although this course is intended for serious students of the verbal and visual arts, it is also designed to accommodate (as an elective) interested students who are avid film goers and desire to improve their appreciation of the films they see.

399. Special Topics in English (was 199) one to twelve hours

Studies in special selected topics. The topic to be studied will be determined by the instructor and approved by the division head. Credits earned will be applicable as free electives in degree and certificate programs.

430. Methods and Materials in Teaching English three hours

Study and practice in the techniques of teaching the fundamentals of grammar, mechanics, composition, and the varied types of literature; taken as part of the Initial Performance Practicum. Students are advised to take 355 before 430. Students will take 431 the semester before the Professional Block.

440. Honors Literature (was 450) three hours

This course is intended for the superior student of literature, regardless of major. It consists of guided readings, weekly seminars, and an examination covering each semester's work. In order to graduate "with honors", a student must earn three hours of credit. PR: Permission of Honors Committee. Credit: One hour per semester. The maximum number of credits a student can earn in English 440 is four hours.

441. Independent Study (was 460) one to four hours

Intensive study in the work of one or more significant authors. Subject area to be suggested by the students and approved by the instructor. The students may conduct an independent investigation in an area of interest to them and embody the results in one or more research papers. PR: Consent of instructor.

Journalism

New Course

312. The Publications Process

three hours

Deals with the practical concerns typical to anyone charged with producing a publication, particularly teachers who may supervise a student newspaper, yearbook, magazine, or handbook. Students will be required to work on various college publications since "hands-on" knowledge of all of the skills necessary for publication production will be emphasized, including: reporting, editing, proofreading, layout, typography, photo selection, graphic design, desk-top processing, and staff assessment and supervision. PR: Eng. 104, 108.

Spanish

Revised Program

Spanish 301 and 302 are required courses for the minor in Spanish. The credit hours for the Spanish minor increased from 18 to 24 hours.

New Courses

Spanish

301. Spanish Composition and Conversation I

three hours

This course is designed to improve the students' skills in communication both written and oral, with emphasis on building vocabulary and strengthening grammar through class discussion, use of text and A-V material, and outside work. Prerequisites are Spanish 201 and 202 or equivalent, or consent of the instructor.

302. Spanish Composition and Conversation II

three hours

This course is a continuation of Spanish 301 with ever-increasing emphasis on communication. Prerequisites are Spanish 201 and 202 or equivalent, or consent of the instructor. While having Spanish 301 prior to Spanish 302 is desirable, it is not required.

DIVISION OF SCIENCE, MATHEMATICS, AND HEALTH CAREERS

Biology

Course Title Change

BIO 219 - General Zoology to BIO 219 - Principles of Zoology

BIO 230 - General Botany to BIO 230 - Principles of Botany

Change in Prerequisite

BIO 219 - Principles of Zoology

PR: A score of 21 or better on the ACT Science Reasoning section or

BIO 101 with a "C" or better.

BIO 230 - Principles of Botany

PR: A score of 21 or better on the ACT Science Reasoning section or BIO

101 with a "C" or better.

Chemistry

Delete

Chemistry 103 - Modern Chemistry

The substitution of Chemistry 101, 102, and 103 for Chemistry 105, and

106 is no longer an option. Students not meeting the prerequisites for

Chemistry 105 are required to complete Chemistry 101 with a grade of "C" or

better and then take Chemistry 105.

Change in Prerequisite

Chemistry 101 - General Chemistry

ACT Math score should be 19.

Chemistry 105 - Chemical Principles

PR: One year of high school algebra and an ACT Math score of 20 or

Chemistry 101 with a grade of "C" or better.

Other Changes

The format for Chemistry 105 and 106 has been changed. Classes meet four times per week for a 50-minute lecture and once a week for a 3-hour lab.

Revised Course Descriptions

101. General Chemistry

four hours

This course is a study of the theoretical concepts needed to understand typical chemistry phenomena. The concepts include the nature of science, matter and measurements, the stoichiometry of chemical reactions, solutions and the calculation of concentration, energy relationships in chemistry, modern atomic theory, chemical bonding and molecular structure, and the classification of reactions. Three lectures and one three-hour laboratory per week. PR: One year of high school algebra and an ACT Math score of 19 or Developmental Skills 105.

105. Chemical Principles**five hours**

This course and the following one, Chemistry 106, constitute a study of inorganic and elementary physical chemistry based on the topics of stoichiometry, atomic and molecular structure, periodic properties, phase relations, solutions chemistry, chemical equilibrium, kinetics, electrochemistry and nuclear chemistry. Four lectures and one three-hour laboratory per week. PR: One year of high school algebra and an ACT Math score of 20 or Chemistry 101 with a grade of "C" or better.

106. Chemical Principles**five hours**

The lectures will complete the coverage of the material listed above for Chemistry 105. Four lectures and one three-hour laboratory per week. PR: Chemistry 105.

Mathematics

Revised Course Titles

Math 112 - Intermediate Mathematics to College Algebra

Math 115 - Intermediate Mathematics II to Trigonometry and Elementary Functions

Change in Course Numbers

Math 116 - Calculus I to Math 190

Math 205 - Fundamental Concepts of Mathematics to Math 107

Change in Prerequisite

Math ACT requirement is 19 for Math 101, 107, 110, and 111

Change in Credit Hour

Math 115. Trigonometry and Elementary Functions from four hours to three hours

New and revised courses**101. Applied Technical Mathematics I****three hours**

This course is an introduction of fundamentals mechanics and techniques for performing operations with algebraic expressions and subsequently solving linear equations, systems of linear equations, and quadratic equations. This course also introduces trigonometric functions and is designed to develop methods of solving right angles and oblique triangles using trigonometry. PR: (a) one unit of high school algebra and a Math ACT score of 19 or higher or Developmental Skills 105, Elementary Algebra AND (b) one unit of high school geometry or Developmental Skills 106, Elementary Geometry and Trig.

107. Fundamental Concepts of Mathematics**three hours**

This course is an introductory survey course in mathematics including elementary logic, set language, a discussion of various number systems, numerations systems, introductory number theory, probability, and other related topics. It cannot be substituted for Math 110. PR: (a) one unit of high school algebra and a Math ACT score of 19 or higher OR (b) Developmental Skills 105, Elementary Algebra.

110. Mathematics for Elementary Teachers I **three hours**

This course is an introductory course in mathematical ideas. This course includes basic concepts of set theory, properties of operations and a logical development of the real number system and its subsystems. Understanding of the basic operations is stressed. This course cannot be used as math credit toward certification for teaching mathematics. Credit for this course does not count for general requirement in science and mathematics. PR: (a) one unit of high school algebra and a Math ACT score of 19 or higher OR (b) Developmental Skills 105, Elementary Algebra.

111. Intermediate Algebra **three hours**

This course is an introductory course in college algebra. This course cannot be used as mathematics credit toward certification for teaching mathematics. Credit may be earned for either Math 111 or 101 but not both courses. PR: (a) One unit of high school algebra and a Math ACT score of 19 or higher OR (b) Developmental Skills 105, Elementary Algebra.

112. College Algebra **three hours**

This course includes a review of real numbers, algebraic expressions, equations and inequalities, graphing, matrix operations and properties, systems of equations, exponents and radicals, mathematical induction, binomial expansion, progressions, and related topics. PR: 1) Three hour lecture- Students who have credit for high school algebra I and II with a Math ACT score of 21 OR Math 111 may enroll in the three-hour lecture. 2) Five-hour lecture - Students with credit for Developmental Skills 105, Elementary Algebra, or students who have a Math ACT score of 19 or 20 must take the five-hour lecture section of Math 112.

115. Trigonometry and Elementary Functions **three hours**

This course includes a study of circular and trig functions, trig identities, equations and graphs, vectors, logarithms, complex numbers, functions and inverse functions, and related topics. PR: (a) Students with high school Algebra I and II with a Math ACT score of 23 or higher or Math 112 AND (b) High school geometry or Developmental Skills 106, Elementary Geometry and Trig.

190. Calculus I **four hours**

This course is the calculus of one variable beginning with an intuitive study of limits and a geometric interpretation of the derivative. Topics include: differentiation of functions and the application of the derivative to graphing functions, approximating functions, solving max/min problems and related rate problems; antidifferentiation and its link to the signed area under a curve; the fundamental theorem of calculus and applications of the definite integral. PR: (a) High school Algebra I and II, high school geometry, high school trigonometry with a Math ACT score of 25 OR (b) Math 115.

Courses omitted from the 1992-94 Catalog**206. Introduction to the Theory of Numbers three hours**

Prime Numbers; the unique factorization theorem; congruencies, Diophantine equations; primitive roots; the quadratic reciprocity theorem. PR: Math 190 or consent.

210. Mathematics for Elementary Teachers II three hours

This course is intended to follow Math 110. Topics covered in the course include an introduction to logic, numeration systems including bases other than ten, properties of real numbers, finite mathematics, solution of equations and inequalities. Credit for the course does not count for general requirement in science and mathematics. PR: Math 110.

212. Sets, Relations and Functions three hours

Topics to be studied are those related to sets, relations and functions which are common to most upper division mathematics courses. This course is designed and highly recommended for students majoring in mathematics but may be used by other students to satisfy their general education requirement. The course will be offered during the fall semester of each year. PR: Math 115.

Nursing - B.S.

Delete AH 301 - Health Care Organizations
 AH 372 - Legal and Medical Ethics
 Speech 100 - Introduction to Speech Communication
 PE 100 - Physical Education
 ENG 250 - Survey of English Literature
 ENG 260 - Survey of American Literature

Add Math 107 - Fundamental Concepts of Math
 Speech 102 - Speech Communication Theory
 Speech 202 - Speech Communication Practice
 ENG 220, 221 - Literature of the Western World I, II
 or
 ENG 230, 231 - Introduction to Literature I, II

Course Title and Description Change (Nursing Program Only)

AH 102 - Pathophysiology of Disease
 to
 Nursing 230 - Health Deviations

Nursing

230. Health Deviations **three hours**
 Explores the processes within the body that result in the signs and symptoms of disease.

Other Changes

 Nursing students are not required to take PE 100 - Fitness and Wellness or CS 100 - Introduction to Electronic Data Processing.

New Model Schedule

Support Courses and Lower Division Requirements	Credits
English 104*, 108*, 220, 221 or 230, 231	12
Speech 102, 202	5
Psychology 101*, 240	6
Sociology 110*	3
Political Science 103 or 200	3
Chemistry 101*, 102*	8
Biology 170*, 205*	8
Management 308	3
Economics 200 or 201	3
Fine Arts	2
Elective	6

*Courses marked with an asterisk should be completed prior to enrolling in nursing courses. Admission is required for enrollment in clinical nursing courses.

Nursing Courses		Credits
NRG 220	Health Assessment	4
NRG 230	Health Deviations	3
NRG 250	Professional Nursing Concepts	3
NRG 300	Complex Nursing Situations	4
NRG 400	Research in Nursing Practice	2
NRG 410	Community Health Nursing	6
NRG 430	Leadership and Management in Nursing Practice	3
NRG 440	Nursing Practicum	7

Veterinary Technology - A.A.S.

Delete BIO 205 - Technical Microbiology
 Speech 100 - Introduction to Speech Communication

Add CS 100 Introduction to Electronic Data Processing
 VT 125 - Microbiology Laboratory Techniques
 General Studies Elective (Social Sciences)

New Course

125. Microbiological Laboratory Techniques **one hour**

The student will learn methods of handling specimen, preparing media, and performing various tests leading toward the identification of bacteria. Two, two-hour labs per week for eight weeks. PR: VT 113, VT 114, VT 130, and Biol 170. Spring Semester.

Course Revision

210. Laboratory Animal Techniques I **three hours**

The current edition of The AALAS Manual for Assistant Laboratory Animal Technicians will be the guide for course material. The students will study the care, handling and restraint of common laboratory animals. The taxonomy of vertebrate animals is reviewed. Successful completion of this course will prepare the student to take the ALAT certification examination by the AALAS. One hour lecture and two, two-hour labs per week. Open to all students. Spring Semester.

Allied Health Administration B.S. for Veterinary Technology Minors

Add VT 310 - Laboratory Animal Techniques II
 Management 305 - Small Business Management
 Restricted Electives - AH 301, 302, 427

Other Changes

ECON 200 or 201 are required, currently 201 is required

New Course

310. Laboratory Animal Techniques II **three hours**

The current edition of The AALAS Manual for Laboratory Animal Technicians will be the guide for course material. A more extensive study of laboratory animal husbandry will be presented. Research methodology will be studied. In depth review of current government regulations for research animals and facilities will be discussed. Successful completion of this course will prepare the student to take the Laboratory Animal Technical Certification Examination by the AALAS. Two hour lecture and one, two hour lab per week. PR: VT 210 or current ALAT certification.

SOCIAL SCIENCE

History

New General Studies Courses

111. History of Civilization I **three hours**

This course is a global survey of the human experience from the emergence of man through the rise and fall of civilizations until approximately A.D. 1000.

112. History of Civilization II **three hours**

This course begins with the emergence of medieval civilization in Western Europe, and describes the impact of European civilization upon the rest of the world through approximately 1789.

113. History of Civilization III **three hours**

This course begins with the French Revolution and examines both western and non-western civilization through the nineteenth and twentieth centuries.

Political Science

New General Studies Course

101. Introduction to Global Affairs **three hours**

A survey course focusing on the major global issues facing the world today, such as energy, environment, economy, food, population growth, technology and information, war, peace, and human rights.

Sociology

New General Studies Course

111. Introduction to Anthropology **three hours**

This course introduces the field of anthropology. In keeping with the many different kinds of research that anthropologists carry out, it covers the broad range of subjects spanning millions of years and the entire inhabited globe. This course offers answers to fundamental questions of human existence; where our species came from; what human social life was, is and will be in the future.

TECHNOLOGY/HOME ECONOMICS

New General Studies Technology Course

TEC

101. Introduction to Technology three hours

This course is intended as a survey of the discipline of technology. The goal of the course is for the student to develop some measure of technological literacy and an understanding of the uniqueness of technology in human endeavors. Instruction will consist of lectures, media presentations, discussions, field trips, and class activities.

Revised Admission Policy

Applicants for the B.S. degree in architectural engineering technology, civil engineering technology, electronics engineering technology, manufacturing engineering technology, mechanical engineering technology, and graphic communications technology must complete the corresponding A.S. or A.A.S. degree or have graduated from an approved high school with at least a 3.3 grade point average and achieved a minimum ACT composite score of 23 (SAT 970).

Civil Engineering Technology - A.S.

Increase number of required hours from 67 to 70

Delete

- ELE 100 - Circuit Analysis
- SPCH 100 - Speech Communication

Add

- SPCH 102 - Speech Communication Theory
- SPCH 202 - Speech Communication Practice
- MEC 220 - Fluid Mechanics

Other Changes

- CIV 220 - Construction Materials and Methods from 3 to 4 credit hours

Change in Prerequisite

- CIV 220. PR: CIV 210, Math 101, or Consent of Instructor.

Revised Course Description

CIV

230. Construction Estimating four hours

This course covers construction cost estimating techniques for various types of construction projects. Included are certain inter-related topics, such as: production, bidding and specifications as they affect the contractor during the cost estimating process. PR: CIV 220, CS 101, ECON 200.

Civil Engineering Technology - B.S.

Increase number of required hours from 133 to 135

Delete

ELE 100 - Circuit Analysis I
 SPCH 100 - Speech Communication
 TECH Elective
 ENG 250 - English Literature
 ENG 260 - American Literature
 PE 100 - Physical Activity Course

Add

SPCH 102 - Speech Communication Theory
 SPCH 202 - Speech Communication Practice
 MEC 220 - Fluid Mechanics
 ENGL 220, 221 - Literature of the Western World I, II
 ENGL 230, 231 - Introduction to Literature I, II
 PE 100 - Fitness and Wellness

Increase Credit Hour

CIV 220 - increase 1 credit hour
 CIV 340 - increase 1 credit hour

Revised Course Descriptions and Prerequisites

CIV

300. Highway Design and Transportation three hours

This course covers basic transportation theory and design including parametric statistics, traffic flow, capacity, level of service, pavement design and geometric design. PR: TEC 290, CIV 220, CIV 240.

310. Structural Analysis three hours

This course provides an analysis of structures including cables, beams, columns, trusses and frames. Also included is buckling, shear, moment and deflection in statically determined structure. PR: MEC 200, TEC 290, CS 101.

340. Soil Mechanics four hours

This course provides an introduction to soil mechanics to include the study of soil properties, permeability and seepage, combined stresses, total and effective stresses, compressibility and consolidation, and shear strength theory. PR: MEC 200, CIV 220, CIV 305 or PHYS 101.

350. Foundation Design three hours

This course provides an introduction to design of shallow and deep foundations. Bearing capacity and settlements of various foundation designs will be evaluated. Earth pressures for design and retaining walls, sheet piles and excavation bracing will be covered. Slope stability analysis methods will also be utilized. PR: CIV 340.

Changes in Course Prerequisites

CIV 305. Hydraulics

PR: CS 101, TEC 240, MEC 220

CIV 420. Construction Management

PR: CS 101, CIV 230, MFG 205

CIV 460. Water and Wastewater Systems

PR: CHEM 101, CIV 305, or Consent of Instructor

Architectural Engineering Technology A.S.

*Decrease the total required hours from 68 to 63.

Delete

ENGL 109 - Technical Report Writing

TEC 290 - Engineering Analysis

DRF 100 - Engineering Graphics

ART 140 - Art Structure & Applied Design

CIV 220 - Construction Materials and Methods

DRF 215 - Architectural Drafting

ARC 200 - Graphics

CIV 200 - Surveying I

Add

CS 101 - Applied Technical Programming

ART 111 - Art Fundamentals

ARC 225 - Architectural CADD

SPCH 102 - Speech Communication Theory

SPCH 202 - Speech Communication Practice

Fine Arts Elective

Social Science Elective

Arch. Drawing Elective

Revision of Course Descriptions

ARC

210. Design I

four hours

Introduction to developing design methodology and subsequently integrating these concepts into the process of design. Topics covered include form studies and theory, and incorporating these into the design of architectural elements. Introduction of sketching, graphic and modeling skills to communicate design concepts. Emphasis on developing the presentation skills of the student. PR: ARC 160, ART 111, Arch. Dwg. elective.

ARC

250. Design II

four hours

Continuation of design methodology as applicable to the design of simple structures. Emphasis on tectonics as well as the nature of materials and the site. Further development of sketching, graphic and modeling skills as students learn to understand, interpret, and represent spaces, as well as further development of presentations skills. A first-year design portfolio will be developed. PR: ARC 210.

Creation of a New Course**225. Architectural CADD****three hours**

Introduction to computer aided drafting and design. Material will include an introduction to the basic drawing processes of the computer and subsequent applications to design solutions in architecture. PR: CS 101.

Change in Course Numbers

ARC 230. Architectural History I	to	ARC 130
ARC 260. Architectural History II	to	ARC 160

Change in Prerequisites

ARC 160. Architectural History II

PR: ARC 130

ARC 200. Graphics

PR: DRF 100 or two years of high school drafting.

Architectural Engineering Technology - B.S.

*Decrease the total required hours from 132 to 131.

Delete

ENGL 109 - Technical Report Writing
 DRF 100 - Engineering Graphics
 ART 140 - Art Structure & Applied Design
 ART 142 - Drawing
 CIV 200 - Surveying I
 2 Technology Electives
 TEC 290 - Engineering Analysis I
 TEC 290 - Engineering Analysis II
 DRF 215 - Architectural Drafting
 ARC 200 - Graphics
 SPCH 100 - Introduction to Speech
 CIV 310 - Structural Analysis
 PE 100 - Physical Education
 ENG 250 - English Literature
 ENG 260 - American Literature

Add

CS 101 - Applied Technical Programming
 ART 111 - Art Fundamentals
 ARC 225 - Architectural CADD
 SPCH 102 - Speech Communication Theory
 SPCH 202 - Speech Communication Practice
 ARC 450 - Design V
 ARC 460 - Design VI
 Arch. Drawing Elective
 Arch Electives

PE. 100 - Fitness and Wellness
 ENG 220, 221 - Literature of the Western World I, II
 or
 ENG 230, 231 - Introduction to Literature I, II
 General Studies Elective

Change in Hours

CIV 220 - Construction Materials and Methods from 3 to 4 hours
 ARC 320 - Site Planning from 2 to 3 hours

Change in Course Numbers

ARC 400 - Design III to ARC 300
 ARC 410 - Design IV to ARC 350

Change in Prerequisites

ACR 320 - Site Planning
 PR: delete CIV 200

ARC

310. Construction Details and Materials four hours

This course is a comprehensive exploration of materials, structural systems, and details in the context of commercial building design. Students will produce a set of working drawings for an architectural office setting. PR: ARC 350, CIV 220, CR: ARC 450.

420. Urban Design and Preservation three hours

This course explores urban planning and the application of its basic principles to an urban context. History of urban design, urban development, and historic preservation will be discussed and applied to design projects. PR: ARC 300; CR: ARC 350.

300. Design III four hours

This class encompasses the investigation, synthesis, and communication of characteristics of the built environment. Material covered includes programming of a building with respect to function, user, and site; and exploration of energy conservation and solar application. Students will develop a more advanced level of design, graphic skills, and three-dimensional modeling. PR: ARC 250, 1st Year Portfolio, CR: ARC 320.

350. Design IV four hours

This course explores the architectural design in the context of the urban fabric. Topics include urban design, historic preservation, and the social impact of the built environment. Cultural and behavioral patterns will be explored. Students will develop further their modeling skills, graphic communication, and oral communication. A second year portfolio will be developed. PR: ARC 300; CR: ARC 420.

450. Design V four hours

This course encompasses architectural design as an integration of design concept and building technology. Concepts synthesized in the design process include structural systems, mechanical systems, and building materials, as well as more sophisticated building design. Advanced graphic communications will be combined with computer applications. PR: ARC 350, 2nd Year Portfolio; CR: ARC 310.

460. Design VI four hours

This class executes a comprehensive architectural design of the student's choice with the approval of the instructor. Concentration in the project may be in building technology, urban design, historical design, theory, environmental design, or other approved topic area. Student will develop the design concept, conduct research, develop the form and express the design of the structure at a sophisticated level of graphic and three-dimensional skills. A third year portfolio will be completed. PR: ARC 450; CR: GS Elective.

COMMERCIAL DESIGN/GRAPHICS A.A.S.

Increase of hours from 65 to 68

Delete

GCT Elective

GCT 260 - Graphic Arts Practicum (reduces from 6 to 4 hours)

ART 341 - Graphics

Add

CS 100 - Introduction to EDP

Social Science Elective

SPCH 102 - Speech Communication Theory

SPCH 202 - Speech Communication Practice

Drafting/Design Engineering Technology - A.A.S.**Delete**

SPCH 100 - Introduction to Speech Communication
Elective

Add

SPCH 102 - Speech Communication Theory

SPCH 202 - Speech Communication Practice

Changed in Prerequisites

DRF 215 - Architectural Drafting

PR: DRF 100 (or two years of high school drafting for Architectural majors only.)

DRF 270 - Computer Graphics

PR: CS 101 (or CS 100 for Technology Education majors only.)

Electronics Engineering Technology A.S.

Decrease of hours from 69 to 68

Delete

SPCH 100 - Introduction to Speech Communication

Add

SPCH 102 - Speech Communication Theory

Electronics Engineering Technology B.S.

Increase of hours from 131 to 132

Delete

SPCH 100 - Introduction to Speech Communication

Elective

PE 100 - Basis Activity Course

ENGL 250 - English Literature

ENGL 260 - American Literature

Add

SPCH 102 - Speech Communication Theory

SPCH 202 - Speech Communication Practice

PE 100 - Fitness and Wellness

ENGL 220, 221 - Literature of the Western World I, II

or

ENGL 230,231 - Introduction to Literature I, II

Graphic Communications Technology A.S.

Decrease number of hours from 69 to 67

Delete

BUS 141 - Business Math
 ENGL 108 - Written English II
 MGMT 305 - Small Business Management
 PE 100 - Basic Activity Course
 GCT - 250 Practicum (Reduce hours from 6 to 4)

Add

SPCH 102 - Speech Communication Theory
 SPCH 202 - Speech Communication Practice
 Math 107 - Fundamental Concepts
 PH S 102 - Physical Science Chemistry

Graphic Communications Technology B.S.

Decrease hours from 130 to 129

Delete

BUS 141 - Business Math
 PE 100 - Basic Activity Course
 GCT - 250 Practicum (Reduce hours from 6 to 4)
 CHEM 101 - General Chemistry
 CHEM 102 - General Chemistry
 ENGL 250 - English Literature
 ENGL 260 - American Literature
 SPCH 100 - Introduction to Speech Communication

ADD

SPCH 102 - Speech Communication Theory
 SPCH 202 - Speech Communication Practice
 Math 107 - Fundamental Concepts
 PH S 102 - Physical Science Chemistry
 PH S electives (4 credits)
 PE 100 - Fitness and Wellness
 Eng 220, 221 - Literature of the Western World I, II
 or
 Eng 230, 231 - Introduction to Literature I, II

Mechanical Engineering Technology A.S.

Increase hours from 67 to 69

Delete

SPCH 100 - Introduction to Speech Communication

Add

SPCH 102 - Speech Communication Theory

SPCH 202 - Speech Communication Practice

Mechanical Engineering Technology B.S.

Increase hours from 130 to 133

Delete

SPCH 100 - Introduction to Speech Communication

PE 100 - Basic Activity Course

ENGL 250 - English Literature

ENGL 260 - American Literature

Add

SPCH 102 - Speech Communication Theory

SPCH 202 - Speech Communication Practice

PE 100 - Fitness and Wellness

ENGL 220, 221 - Literature of the Western World I, II

or

ENGL 230, 231 - Introduction to Literature I, II

Safety Engineering Technology - B.S.

Delete

SAF 210 - Disaster Preparedness and Emergency Systems

Change in course number

SAF 230. Human Factors in Accident Prevention to SAF 310

Change in Prerequisites

SAF 260. Fire Prevention and Inspection PR: Chem 102, SAF 201. CR: Phys 102

SAF 310. Human Factors in Accident Prevention PR: SAF 201, Chem 102, Math 102, Bio 170

Revised Course Description

SAF 303. Industrial Hygiene Applications and Practices

4 hours

Add "three hours of lecture and two hours of laboratory each week are required."

Technology Education 5-8

Increase of hours from 32 to 33

Delete

TEC 302 - Manufacturing II
 TEC 303 - Transportation II
 TEC 450 - Multiple Activities

Add

DRF 100 - Engineering Graphics
 MAT 100 - Materials and Processes
 TEC 331 - Organ. and Admin. of Tech. Ed.

Change in Hours

TEC 100 - Technology and Society from 2 to 3 hours

Revised Course Description and Title

TEC

431. Methods and Materials of Teaching

Technology Education

three hours

This course is designed to prepare the pre-service technology education teacher to effectively teach the range of students in grades five through twelve in the public schools. Emphasis is placed on designing a unit of instruction in one of the four technology education system areas. The primary assignment is the preparation of a course unit of study that will include the following topics: a rationale, course/unit planning, lesson planning, instructional objectives, instructional strategies, and student evaluation/grading. PR: EDUC 303, TEC 204, TEC 301, TEC 302, TEC 303, TEC 331.

Technology Education 5-12

Increase hours from 44 to 45

Delete

ELE 100 - Circuit Analysis I
TEC 450 - Multiple Activities

Add

TEC 150 - Control Technology
TEC 331 - Organ. and Admin. of Tech. Ed.

Change in Hours

TEC 100 - Technology and Society from 2 to 3 hours

Change in Prerequisites

TEC 204 - Construction
PR: add TEC 150

TEC 301 - Communication
PR: add TEC 150

TEC 302 - Manufacturing II
PR: add TEC 150 for Technology Education Majors only.

TEC 303 - Transportation II
PR: add 150

New Courses

TEC

150. Control Technology three hours

Control technology is a course that addresses mechanical, fluid, electrical, electronic and computer instruments used to regulate technical products and systems. Students will develop knowledge and skills of common control related components/devices and apply them to the solution of practical problems found in typical technology education settings. CR: Math 101, CS 100

331. Organization and Administration of Technology Education three hours

This course is designed to prepare the pre-service technology education teacher to effectively organize and manage a technology education classroom and laboratory. Emphasis is placed on safety system design, discipline planning, laboratory organization and management, requisitioning/supplies/equipment, machine maintenance and facility design. Also included are topics relating to curriculum trends, Technology Student Association (TSA) and public relations. CR: TEC 202, 203, 204, GCT 100.

Technology Education - Comprehensive 5-12

Total hours in program - 139

Delete

ELE 100 - Circuit Analysis I
TEC 450 - Multiple Activities
All Technical Specializations
 Graphic Arts
 Woods
 Power
 Drafting/Design
 Construction
 Electronics
 Metals

Add

TEC 150 - Control Technology
TEC 331 - Organ. & Admin. of Tech. Ed.
CIV 210 - Light Construction
DRF 270 - Computer Graphics
CS 100 - Introduction of EDP (General Studies Elective)
Technology Electives (9 credit hours)

Change in Hours

TEC 100 - Technology and Society from 2 to 3 hours

Manufacturing Engineering Technology - A.S.

Decrease in hours from 67 to 66

Program Options: **Production and Inventory Management**
 Chemical Process Technology

Production and Inventory Management

MFG 260 - Master Planning/Systems
 MFG 270 - Inventory Management/MRP
 MFG 280 - Prod. Activity Control/CRP
 MFG 285 - Just-In-Time/Technologies
 SAF 201 - Occupational Safety

Chemical Process Technology

MFG 101 - Intro. Chemical Operations
 MFG 111 - Chemical Operator Safety
 MFG 151 - Chemical Theory/Systems
 MFG 201 - Chemical Equipment Operations
 MFG 251 - Chemical Systems Operations

Delete

MFG 250 - Personnel Problems/Labor Relations
 MFG 265 - Materials Requirements Planning
 MFG 275 - Capacity Management
 SPCH 100 - Introduction to Speech Communication

Add

DRF 270 - Computer Graphics
 CHEM 101 - General Chemistry
 CHEM 102 - General Chemistry
 MFG 101 - Intro. Chemical Operations (Chem. option only)
 MFG 111 - Chemical Operator Safety (Chem. option only)
 MFG 151 - Chemical Systems. theory (Chem. options only)
 MFG 201 - Chemical Equipment Operations (Chem. option only)
 MFG 251 - Chemical Systems Operations (Chem. option only)

Revised Course Descriptions, Titles, Prerequisites

MFG

260. Master Planning/Systems

three hours

The Master Planning/Systems course is designed to teach the student the basic concepts of strategic planning, production planning, master production scheduling, forecasting, resource planning, order servicing, and demand management. This would include the ability to recognize strategic drivers that affect production and inventory management and how to configure and integrate production and inventory systems within the business environment. Also included in this course is the application of controls and bills of materials in the manufacturing environment. PR: MFG 280 or Consent of Instructor.

270. Inventory Management/MRP **three hours**

The Inventory Management/MRP course covers the development of inventory management objectives, inventory planning systems, inventory control functions, physical distribution, and inventory accounting methodology. Included are principles of lot sizing, aggregate inventory management, demand management, information system considerations and environmental factors. Also covered is the use of material requirements planning (MRP) as an inventory management tool. The data sources, bills of materials, and other requirements of applying MRP will be discussed. PR: MFG 285 or Consent of Instructor.

280. Production Activity Control/CRP **three hours**

The Production Activity Control/CRP course covers the scheduling and control of manufacturing and suppliers, relationships within the organization, priority control, and lead time management. Also, included is the use of capacity requirements planning (CRP) and associated data sources and requirements. There will be a main emphasis on data, measurements, and reporting within the organization. Other topics covered are input/output control, production leveling, line balancing and flow balancing in the overall production environment. PR: MFG 270 or Consent of Instructor.

285. Just-In-Time/Technologies **three hours**

The Just-In-Time/Technologies class involves the study of total quality control, total people involvement (empowerment), and the integration of all functions (finance, engineering, marketing, suppliers, etc.) with production. This course also includes the study of physical workplace organization, total preventative maintenance, problem solving techniques, and reductions in setup times, inventories, and lead times.

New Courses**MFG****101. Introduction to Chemical Operations** **three hours**

This course provides basic material for persons working in the chemical process industry. It is an overview of basic skills, safety, applied unit operations and federally regulated training related to the chemical process industry.

111. Chemical Operator Safety **three hours**

This course provides the student with an overview of safety and risk management topics of concern to general industry. More specific detail is given to areas that pertain to the operation of a chemical production facility.

151. Chemical Theory/Systems **three hours**

This course covers the basic theory and systems for a chemical processing facility. Students are introduced to basic scientific principles and their applications in a chemical process facility as well as basic principles of chemistry and environmental protection. Topics related to instrumentation and control as they apply to process system measurement are covered. Types of diagrams associated with process systems operations are introduced. PR: MFG 101.

201. Chemical Equipment Operations **three hours**

This course covers basic chemical process equipment concepts and operations. Included is an introduction to the functions and uses of pumps, valves, heat exchangers, piping and auxiliaries, and related electrical equipment. PR: MFG 151.

251. Chemical Systems Operations **three hours**

Building on Chemical Theory/Systems and Equipment Operations, this course deals with operating systems such as water treatment, boilers, reactors, and distillation processes. A general overview of unit operations is also covered. CR: MFG 201.

Manufacturing Engineering Technology - B.S.

Increase from 134 to 136 hours

Delete

MFG 265 - Materials Requirements Planning
 MFG 275 - Capacity Management
 SPCH 100 - Introduction to Speech Communication
 PE 100 - Basic Activity Course
 ENGL 250 - English Literature
 ENGL 260 - American Literature
 PHYS 101 - Introduction of Physics
 PHYS 102 - Introduction of Physics

Add

DRF 270 - Computer Graphics
 CHEM 101 - General Chemistry
 CHEM 102 - General Chemistry
 MFG 101 - Intro. Chemical Operations (Chem. option only)
 MFG 111 - Chemical Operator Safety (Chem. option only)
 MFG 151 - Chemical Theory/Systems (Chem. option only)
 MFG 201 - Chemical Equipment Operations (Chem. option only)
 MFG 251 - Chemical Systems Operations (Chem. option only)
 MEC 200 - Strength of Materials
 SPCH 102 - Speech Communication Theory
 SPCH 202 - Speech Communication Practice
 PE 100 - Fitness and Wellness
 ENGL 220, 221 - Literature of the Western World I, II
 or
 ENGL 230, 231 - Introduction to Literature I, II

Change in Credit Hour

MFG 410 - Metallurgy from 2 to 3 hours

Home Economics

Revised Program Child Care - A.A.S.

The required credit hours for the A.A.S. degree in Child Care decreased from 67 to 64 hours.

Delete	Phy. S. 100 - Scientific Methodology 6 Elective hours
Add	Phy. S. 105 - History of Physical Science C.S. 100 - Introduction to Electronic Data Processing

Revised Program Fashion Merchandising - A.A.S.

The required credit hours for the A.A.S. degree in Fashion Merchandising increased from 65 to 66 hours.

Delete	Speech 100 - Introduction to Speech Communication 6 Elective hours
Add	CS 100 - Introduction to Electronic Data Processing General Studies Elective from Selected List (see adviser) FM 201 Fashion Design Seminar

New Course

FM 201. Fashion Design Seminar **three hours**

The seminar will study flat pattern design and the fabrication of an original garment. Students will use a computer-generated pattern based on body measurements to create a fitting slope and the basic pattern pieces necessary for developing an original garment. PR: HEC 101, FM 251

Increase Credit Hours from 2 to 3 for HEC 102.

New Course Description

HEC 102. Apparel Industries **three hours**

This course assists textiles and apparel students to better understand garment manufacturing and the decisionmaking involved in marketing, merchandising, producing, and evaluating apparel.

Change in Prerequisites

FM 217.	Fashion Retailing and Merchandising add: or Consent to the existing prerequisite
HEC 102.	Apparel Industries add: HEC 101 or Consent to the existing prerequisite

Revised Program Fashion Merchandising - Minor

The revision does not change the total number of credit hours required for the minor which is 25 hours.

- Delete** MKTG 204 - Marketing
- Add** FM 201 - Fashion Design Seminar

Fashion Merchandising

Minor, B.A. and B.S. Degrees

25 sem. hours

HEC	101	Principles of Clothing Construction.....	3
HEC	103	Clothing Selection.....	3
FM	115	Introduction to Fashion Merchandising	3
FM	116	History of Contemporary Fashion	3
HEC	210	Textiles	3
FM	217	Fashion Retailing and Merchandising	3
		(PR: FM 115 or Consent)	
FM	218	Fashion Merchandising Practicum.....	4
		(PR: FM 217)	
FM	201	Fashion Design Seminar	3
		(PR: HEC 101, FM 251)	

Revised Program Food Service Management - A.A.S.

The revision does not change the total number of credit hours required for the degree which is 64 hours.

- Delete** PE 101 - Basic Physiological Conditioning
PE 102-179 - Basic Activity Courses

- Add** PE 100 - Fitness and Wellness

Revised Program Interior Design - A.A.S.

The revision does not change the total number of credit hours required for the degree which is 64 hours.

- Delete** SPCM 100 - Introduction to Speech Communication
3 Elective hours

- Add** CS 100 - Introduction to Electronic Data Processing
General Studies Elective from Suggested List (see adviser)

Change in Prerequisites

- ID 240. Interior Design II**
add: or HEC 250 to the existing prerequisite

Interior Design

Minor, B.A. and B.S. Degrees

25 sem. hours

ID	140	Intro. to Interior Design	3
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HEC	210	Textiles	3
HEC	250	Design in Home Furnishings	3
ID	275	Interior Design Practicum (PR: ID 240)	4
HEC	320	Housing in Society	3
ID	240	Interior Design II (PR: ID 140 or HEC 250)	4
Art	255	Art Appreciation	2
Drafting	100	Engineering Graphics	3

Admission Policy for Aviation/Avionics Programs

The A.A.S. degree in Aviation Maintenance Technology, A.S. degree in Avionics Maintenance Technology, B.S. degree in Aviation Technology, and B.S. degree in Airway Science are limited enrollment programs.

To be considered for admission to these programs, the applicant must:

1. Meet the general admission requirements of Fairmont State College.
2. Submit an application for admission designating Aviation as a major field of study, ACT or SAT scores, high school transcript or GED scores and college transcript (if applicable) to the Director of Admissions by March 31 to be considered for the following academic year.

Admission decisions are made by May 1. All applicants are notified by letter concerning their admission status. Selection criteria are based primarily on the academic background of the student with consideration given to life experience and training.

Aviation Technology B.S. New Degree Program

The Bachelor of Science in Aviation Technology is offered to students whose career objective is the management and operation of airside activities in the aviation industry. This degree offers three options: Aviation Maintenance Management, Avionics Maintenance Management, and Aviation Administration.

Aviation Common Core

AM 301	Aviation History	3
AM 302	Aviation Law	3
AM 303	Airline Operations	3
AM 305	General Aviation Operations	3
AM 307	Aviation Safety	3
AM 401	Trends & Current Issues in Aviation	3*
AM 402	Fiscal Aspects of Aviation	3
AM 403	Aviation Project	1-4*
MFG 250	Personnel Problems and Labor Relations	3
MGMT 209	Principles of Management	3
MGMT 390	Human Behavior in Organizations	3
* Must Select One of these Courses		

Total Credit Hours 30

Aviation Maintenance Management**141 Credit Hrs.**

This option prepares the student for entry level management positions in the maintenance field with airlines, aviation manufactures, repair stations, and fixed based operators. All graduates must have obtained the FAA Airframe and Powerplant License.

General Studies	50 Credit Hrs.*
Aviation Common Core	30 Credit Hrs.
Technical Specialty Courses	61 Credit Hrs.

Technical Specialty Courses

MATH 101	Applied Technical Math I	3
AP 101	Intro. to Aviation Maintenance	3
AP 102	Aircraft Basic Science	3
AP 103	Aviation Shop Practices	3
AP 104	Aircraft Electrical Systems	5
AP 105	Aircraft Utility Systems	2
AP 106	Aircraft Information Systems	3
AP 201	Reciprocating Engines and Systems	3
AP 202	Aircraft Sheet Metal Structures	3
AP 203	Reciprocating Engine Maintenance and Return to Service	5
AP 204	Propeller Systems	3
AP 205	Turbine Engines and Systems	3
AP 206	Aircraft Fluid Power Landing Gear Systems	3
AP 207	Turbine Engine Maintenance and Return to Service	3
AP 208	Cabin Atmosphere Control Systems	3
AP 209	Aircraft Flight Control Systems	3
AP 210	Non Metallic Structures	3
AP 211	Helicopter Fundamentals	1
AP 404	Advanced Composite Structures	3
	or	
AP 405	Advanced Non Destructive Testing	3
AM 304	Airline Maintenance Management	3

Total Credit Hours 61

*Students in these programs must check with their academic advisor to insure the required general studies courses are completed.

Avionics Maintenance Management**134 Credit Hrs.**

This option prepares the student for entry level management positions in the avionics field with airlines, aircraft and avionics manufacturers, repair stations, and fixed base operators. All graduates must have obtained the FCC General Radio Telephone License.

General Studies	50 Credit Hrs.*
Aviation Common Core	30 Credit Hrs.
Technical Specialty Courses	54 Credit Hrs.

Technical Specialty Courses

MATH 101	Applied Technical Math I	3
AV 100	Introduction to Aviation	3
AV 200	Electronics Flight Management Systems	3
AV 202	Instrument Landing Systems	3
AV 204	Aircraft Navigation Systems	3
AV 206	Aircraft Communications Systems	3
AV 208	Avionics Maintenance Practices	3
AV 209	Aircraft Radar	2
AV 210	FCC License Preparation	2
AM 304	Airline Maintenance Management	3
AP 104	Aircraft Electrical Systems	5
ELE 100	Circuit Analysis I	3
ELE 200	Electronic Shop Practices	3
ELE 210	Circuit Analysis II	3
ELE 215	Basic Transistors	3
ELE 230	Digital Electronics	3
ELE 250	AC/DC Machinery and Controls	3
ELE 270	Microcomputers	3

Total Credit Hours	54
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*Students in these programs must check with their academic advisor to insure the required general studies courses are completed.

Aviation Administration**128 Credit Hrs.**

This option prepares the student for employment in administrative areas with companies in and related to the aviation industry. Typical positions include airport manager, flight dispatcher, station management, flight scheduler, crew coordinator, air cargo administration, aviation marketing and air traffic controller.

General Studies	50 Credit Hrs.*
Aviation Common Core	30 Credit Hrs.
Technical Specialty Courses	48 Credit Hrs.

Technical Specialty Courses

AV 100	Introduction to Aviation	3
AM 100	Aircraft Flight Theory	3
AM 102	Introduction to Air Traffic Control	3
AM 210	Aviation Meteorology	3
AM 211	Airport Management	
AM 213	Airport Planning and Development	3
AM 214	Advanced Air Traffic Control	3
MATH 101	Applied Technical Math I	3
SAF 201	Occupational Safety	3
SAF 220	Environmental Hazard Control	3
SPCH 369	Communication in Organizations	3
	or	
SPCH 361	Speaking for Business and Professional	3
ACCT 304	Marketing	3
MKT 320	Advertising	3
MKT 411	Marketing Management	3
ECON 202	Economic Principles and Problems	3

Totals Credit Hours	48
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*Students in these programs must check with their academic advisor to insure the required general studies courses are completed.

Airway Science - B.S. New Degree Program

The Bachelor of Airway Science is offered to students that wish to pursue a career as an Electronics Technologist within the Federal Aviation Administration. The Electronic Technologist design, install, and maintain the specialized electronic equipment used in the national airspace system. This program was designed to meet the rigid requirements of the Federal Aviation Administration for Airway Science programs. This program must also be accredited by the Federal Aviation Administration prior to it being offered. This program consists of 132 credits.

General Studies		84 credit hours
Eng. 104	Written English I	3
Eng. 108	Written English II	3
Eng. 109	Technical Report Writing	3
	Literature Electives	6
Spcm 102	Speech Communication Theory	2
Spcm 202	Speech Communication Practice	3
Psy. 101	Introduction to Psychology I	3
Econ. 200	Economics	3
PS 103	American Government	3
Soc. 110	Introduction to Sociology	3
Phy. 101	Introduction to Physics I	4
Phy. 102	Introduction to Physics II	4
Chem. 101	General Chemistry I	4
Math 101	Applied Technical Math I	3
Math 102	Applied Technical math II	3
Tec 290	Engineering Analysis I	4
Tec 300	Engineering Analysis II	4
Psy. 240	Statistics	4
CS 100	Introduction to EDP	3
CS 101	Applied Technical Programming	3
Bus 230	Microcomputer Applications in Business	3
Mgmt 209	Principles of Management	3
Mgmt 390	Human Behavior in Organizations	3
Mfg 250	Personnel Problems and Labor Relations	3
PE 100	Fitness and Wellness	2
	Fine Arts Elective	2

Technical Specialty Courses		48 credit hours
AM 100	Aircraft Flight Theory	3
AM 302	Aviation Law	3
AM 303	Airline Operations	3
AM 307	Aviation Safety	3
AM 402	Fiscal Aspects of Aviation	3
DRF 100	Engineering Graphics	3
ELE 100	Circuit Analysis I	3
ELE 210	Circuit Analysis II	3

ELE 215	Basic Transistors	3
ELE 270	Microcomputers	3
ELE 220	Linear Electronics	3
ELE 230	Digital Electronics	3
ELE 250	AC/DC Machinery and Controls	3
AV 206	Aircraft Communication Systems	3
AV 202	Instrument Landing Systems	3
AV 204	Aircraft Navigation System	

Avionics Line Maintenance Certificate of Technology

This program provides additional technical training in the avionics field for persons holding an FAA Airframe & Powerplant License or that have satisfactorily completed the Associate in Applied Science in Aviation Maintenance Technology degree. The emphasis is on the theory of operation and line troubleshooting of air transport aircraft electronic/avionics systems.

AV 200	Electronic Flight Management Systems	3
AV 202	Instrument Landing Systems	3
AV 204	Aircraft Navigation Systems	3
AV 206	Aircraft Communications Systems	3
AV 209	Aircraft Radar	2
ELE 200	Circuit Analysis I	3
ELE 210	Circuit Analysis II	3
ELE 215	Basic Transistors	3
ELE 230	Digital Electronics	3
ELE 270	Microcomputers	3
ENGL 104	Written English I	3
Total Credit Hours		32

New Courses

AM

301. Aviation History **three hours**
This course traces man's effort to achieve and sustain flight from early mythology to present. Special emphasis is given to the evolution of the airplane.

302. Aviation Law **three hours**
A study of the legal requirements of, and the case law/decisions affecting the aviation industry. Topics covered include contracts, liabilities, rights of operators, criminal statutes, the U.S. legal system, etc., as applied to aviation.

303. Airline Operations **three hours**

A study of the administrative aspects of airline operation and management including a detailed study of airline organization, structure, and operational issues. Topics to be covered include airline history, airline economics, airline pricing, airline marketing, fleet planning and labor relations. A case study approach will be used to study individual airlines and/or airline related issues.

304. Aviation Maintenance Management **three hours**

This course provides instruction concerning the functions and responsibilities of the aviation maintenance manager. Maintenance management in general aviation, regional airlines and major and national airlines will be studied.

305. General Aviation Operations **three hours**

A study of the general aviation industry, including general aviation aircraft manufacturing, fixed base operations, and corporate flight departments. A basic definition of general aviation, its role and major components will be covered.

307. Aviation Safety **three hours**

This course introduces the student to various aspects of aviation safety including flight safety, ground safety, and how to manage and plan for safety in aviation. Case studies of individual aviation incidents, safety studies and accidents will be presented.

401. Trends and Current Issues in Air Transportation **three hours**

This course presents an analysis of selected contemporary issues, problems and trends facing various segments of the aviation industry (manufacturers, airlines, general aviation and government). Students will apply previously learned principles to practical problems in the aviation industry.

402. Fiscal Aspects of Aviation Management **three hours**

This course will provide an introduction to financial management problems encountered in aviation management. Topics covered include basic accounting, financial management principles, cash flow analysis, budgeting and financial statement analysis.

403. Aviation Project **one to four hours**

Independent study primarily for senior students who wish to pursue study and development work in special areas. Subject must be arranged with the instructor before enrolling in the course.

404. Advanced Composite Structures **three hours**

An in-depth study of the inspection and repair of Aircraft Composite Structures.

405. Advanced Non-Destructive Testing **three hours**

A detailed study of non-destructive testing methods used on aircraft. This course prepares the student for ASNT Level I certification.

- 100. Aircraft Flight Theory** **three hours**
A study of the subject areas and information needed to operate as a private pilot in the aviation environment.
- 102. Introduction to Air Traffic Control** **three hours**
This course provides a description of basic air traffic control procedures and phraseology used by personnel providing air traffic control services. Topics include the history of air traffic control, definitions, basic phraseology, airspace utilization, and air navigation and Federal Aviation Administration rules governing air traffic control.
- 210. Aviation Meteorology** **three hours**
A survey of the basic concepts and processes of atmospheric phenomena and their relation to aeronautical conditions.
- 211. Airport Management** **three hours**
This course presents a study of airfield operations, and management with a focus on the role of the airport manager, the role of the airport in the community, budgeting, marketing and tenant relationships.
- 213. Airport Planning and Development** **three hours**
The principles of airport system planning and airport master planning will be studied. Airport design standards, historical evolution of airports, key airport legislation and environmental impact planning for airports are key course topics.
- 214. Air Traffic Control Procedures** **three hours**
This course is designed to prepare the student to successfully complete the FAA Air Traffic Controller screening exams. Topics covered include: Tower procedures, aircraft separation, departures/arrivals, special procedures.

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Fairmont, West Virginia 26554
Phone (304) 367-4000
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Correspondence should be addressed as indicated below:

Admissions

For Admission, Catalog,
and Academic Information.....Registrar and Director of Admissions

Administrative and

General College Policy.....President

Alumni Activities.....Director of Alumni Relations

College FeesVice President for Administration and Finance

Community College and

Continuing Education.....Vice President for Community College

Curricula, Faculty, Instruction,

Summer Sessions.....Vice President for Academic Affairs

Guidance and CounselingStudent Affairs

International Students.....Coordinator for International Student Advising
and International Education

HousingStudent Affairs

Multicultural AffairsDirector of Multicultural Affairs

PublicityDirector of Public Relations

Scholarships, Loan Information,

and Student Employment.....Student Affairs

Section 504, Title IX, and ADA CoordinatorAssistant to the President

Students with Disabilities.....Coordinator for Students with Disabilities

Fairmont State College



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